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(71) Applicant (for all designated States except US): WELL EN-GINEERING PARTNERS B.V. [NL/NL]; Tynaarlosestraat 68, NL-9481 AE Vries (NL).

(72) Inventors; and

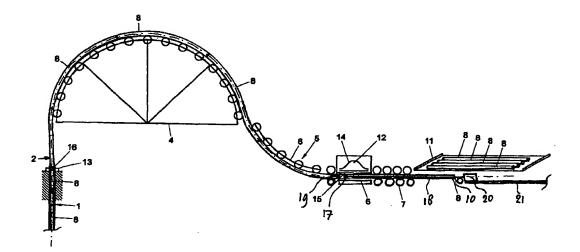
(75) Inventors/Applicants (for US only): BAKKER, Thomas, Walburgis [NL/NL]; Tynaarlosestraat 68, NL-9481 AE Vries (NL). VAN MOURIK, Arno [NL/NL]; Stadionkade 96-3, NL-1076 BL Amsterdam (NL).

(74) Agent: OTTEVANGERS, S., U.; Vereenigde, Nieuwe Parklaan 97, NL-2587 BN The Hague (NL). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: PIPE HANDLING APPARATUS AND METHOD



(57) Abstract

When inserting a tube (2) into a borehole (1) in the ground for extracting minerals, tube parts (8) are successively added to the proximal end of the tube (2) while the tube (2) reaches into the borehole (1). Thereafter, the tube (2) is inserted further into the borehole (1). As the addition of the tube part (8) is carried out by welding, each time an eminently sealing and slender joint between the tube parts is obtained. As the tube parts are successively added to the tube only when this is necessary for inserting the tube further into the ground, winding up the tube to store it prior to insertion is not necessary and the use of a tube-carrying reel which is difficult to handle is thus rendered redundant. Further, an installation for carrying out the proposed method is described.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B19/16 E21B19/22 F16L13/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 E21B F16L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ⁴ Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 0 396 204 A (SHELL INT RESEARCH) 1-4,12, 7 November 1990 (1990-11-07) 13,18-21 claims 1,2,4 figure 1 5-9 Y US 3 677 345 A (SIZER PHILLIP S) 5-9 18 July 1972 (1972-07-18) column 2, line 34-55 X GB 1 405 359 A (INST ELEKTROSWARKI 1-4,12, PATONA; NAUK UK SSSR) 18-20 10 September 1975 (1975-09-10) claim 1 figure 2 Further documents are listed in the continuation of box C. X X Patent family members are listed in annex. Special categories of cited documents : T tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date " document which may throw doubts on priority claim(e) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 6 April 2000 20/04/2000 Name and mailing address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijewijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

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